

Sheet 1 of 3

Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07148-063003	Application No. 09/771,904
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Lorin R. DeBonte, et al.		
		Filing Date January 29, 2001	Group Art Unit	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
EM	AA	4,627,192	12/09/86	Fick			
	AB	4,948,811	08/14/90	Spinner, et al.			
	AC	5,387,758	02/07/95	Wong, et al.			
	AD	5,434,283	07/18/95	Wong, et al.			
	AE	5,545,821	08/13/96	Wong, et al.			
EM	AF	5,625,130	04/29/97	Grant, et al.			

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes No
EM	AG	EP 523 753	12/07/89	Europe			
	AH	WO 91/15578	17/10/91	PCT			
	AI	WO 92/03919	19/03/92	PCT			
	AJ	WO 93/11245	10/06/93	PCT			
EM	AK	WO 94/11516	26/05/94	PCT			

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
EM	AL	Arondel et al., Science, 1992, 258:1153-1155
	AM	Brunklaus-Jung et al., 1987, Plant Breeding, 98:9-16
	AN	Canvin, Can. J. Botany, 1965, 43:63-69
	AO	Circulation, Vol. XLI, Suppl. I, Keys. Ed., pp. II62-II83 (1970)
	AP	Conner et al., Coronary Heart Disease: Prevention, Complications, and Treatment, 1985, pp. 43-64
	AQ	Classen, Oral Presentation, GCIRC 8th International Rapeseed Congress, Saskatoon, Saskatchewan, July 9-11, 1991, pp. 390-395
	AR	Craig, Can. J. Plant Science, 1961, 41:204-210
	AS	Downey et al., Can. J. Plant Sci., 1963, 43:271-275
	AT	Evans et al., JAOCS, 1970, 48:711-714
EM	AU	Fox et al., Proc. Natl. Acad. Sci. USA, 1993, 90:2486-2490

Examiner Signature <i>EM</i>	Date Considered 6/15/05
---------------------------------	----------------------------

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 2 of 3

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07148-063003	Application No. 09/771,904
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Lorin R. DeBontc, et al.	
		Filing Date January 29, 2001	Group Art Unit

<b>Other Documents (include Author, Title, Date, and Place of Publication)</b>			
Examiner Initial	Desig. ID	Document	
gm	AV	Gaillard, The Biochemistry of Plants, Stumpf, Ed. Academic Press, NY, 1980, 4:85-116	
	AW	Garg et al., New England J. Med., 1988, 319:829-834	
	AX	Gaul, Radiation Botany, 1964, 4:155-232	
	AY	GenBank Accession No. U50777 considered Do NOT PRINT - No date	
	AZ	Grundy, New England J. Med., 1986, 314:745-748	
	AAA	Hawrysh, Chemistry, Analysis, and Nutritional Effects, "Stability of Canola Oil," Shahidi, Ed., Van Nostrand Reinhold, NY, 1990, Chap. 7, pp. 99-122	
	ABB	Hitz et al., Plant Physiol., 1994, 103:635-641	
	ACC	Hoffman et al., Theor. Appl. Genet., 1982, 61:225-232	
	ADD	JONSSON, et al., 1886-1986 Research and Results in Plant Breeding, pp. 173-184 LTs forlag, Stockholm considered Do NOT PRINT - No date	
	AEE	Kirk-Othmer Encyclopedia of Chemical Technol., 3rd Edition, 1980, 9:795-831	
	AFF	Kondra et al., Can. J. Plant Sci., 1976, Selection for Oleic, Linoleic and Linolenic Acid Content in F2 Populations of Rape, 56:961-966	
	AGG	Koseoglu et al., Chemistry, Analysis, and Nutritional Effects, "Hydrogenation of Canola Oil, Van Nostrand Reinhold, NY, 1990, Chap. 8, pp. 123-148	
	AHH	Lindqvist et al., The EMBO Journal, 1996, 15(16):4081-4092	
	AII	Mattson, J. Am. Diet. Assoc., 1989, 89:387-390	
	AJJ	Mensink et al., New England J. Med., 1989, 321:436-441	
	AKK	Mensink et al., New England J. Med., 1990, 323(7):439-445	
	ALL	Neidleman, Temperature Effects in the Biosyntheses of Unique Fats and Fatty Acids, Proc. of the World Conf. on Biotech. Fats Oils Ind., 1988	
	AMM	Okuley et al., Plant Cell, 1994, 6:147-158	
	ANN	Paul et al., Theor. Appl. Genet., 1986, 72:706-709	
	AOO	Pleines and Friedt, Fat Sci. Technol., 1988, 90(5), 167-171	
	APP	Pleines et al., Abstract of 43rd Lecture Meeting of Deutsche Gesellschaft fur Fettwissenschaft in Hamburg, September 30-October 1, 1987	
	AQQ	Pleines et al., Abstract of Proceedings of the 7th International Rapeseed Congress, Poznan, Poland, May 11-14, 1987	
	ARR	Rakow et al., J. Amer. Oil Chem. Soc., 1973, 50:400-403	
	ASS	Rakow, Pflanzenzuchtg, 1973, 69:62-82	
gm	ATT	Ram et al., Proceedings World Conference on Biotechnology for the Fats and Oils Industry, Sept. 27-Oct. 2, 1987	

Examiner Signature <i>ETM-El</i>	Date Considered 6/16/05
-------------------------------------	----------------------------

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 3 of 3

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07148-063003	Application No. 09/771.9(4)
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Lorin R. DeBonte, et al.	
		Filing Date January 29, 2001	Group Art Unit

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<i>JM</i>	AUU	Rennie et al.. JAOCs, 1989, 66(11):1622-1624
	AVV	Robbelin et al., Pflanzenzuchtg, 1975, 75:93-105
	AWW	Robbelin et al., Proceedings of the International Conference on the Scientific, Technology, and Marketing of Rapeseed and Rapeseed Products, September 20-23, 1970
	AXX	Robbelin, In: Biotechnology for the Oils and Fats Industry, American Oil Chemists Society, 1984, pp. 97-105
	AYY	Roy et al., Pflanzenzuchtg, 1985, 95(3), 201-209
	AZZ	Roy et al.. Plant Breeding, 1987, 98:89-96
	AAAA	Scarth et al., Can. J. Plant Sci., 1988, 68:509-511
	ABBB	Shanklin et al., Biochemistry, 1994, 33:12787-12794
	ACCC	Shpora, Rape and Mustard Breeding for Oil Quality, Proceedings of the 7th International Rapeseed Congress, Vol. 2. May 11-14, 1987, pp. 560-565
	ADDD	Stefannson, High and Low Erucic Acid Rapeseed Oils, 1983, Ed. N.T. Kenthies, Academic Press Inc., Canada, pp. 145-159
	AEEE	Stefannson et al.. Can. J. Plant Science, 1975, 55:343-344
	AFFF	Töpfer et al., Science, 1995, 268:681-686
	AGGG	Tremolieres et al., Phytochemistry, 1982, 21(1):41-45
	AHHH	Ullrich et al., JAOCs, 1988. 65(8):1313-1317
	AIII	Western Canada Canola Rapeseed Recommendations Committee 1990 Cooperative Trial Date
	AJJJ	Williams et al., J. Am. Med. Assoc., 1987, 257:3251-3256
<i>JM</i>	AKKK	Yadav et al., Plant Physiol., 1993. 103:467-476

Examiner Signature <i>JM</i>	Date Considered 6/16/05
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

Attorney's Docket No.: 07148-063003  
Client's Ref. No.:  
CGL99/0007US11, A015-00505.0049

**OFFICIAL COMMUNICATION FACSIMILE****EXAMINER E. McELWAIN****FAX NO: (571) 273-0802****Number of pages including this page 8**

Applicant : Lorin R. DeBonte et al.  
Serial No. : 09/771,904  
Filed : January 29, 2001

Art Unit : 1638  
Examiner : E. McElwain

Title : FATTY ACID DESATURASES AND MUTANT SEQUENCES THEREOF

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Attached to this facsimile communication cover sheet is a copy of the Information Disclosure Statement and Form PTO-1449 that were mailed on April 23, 2001.

Respectfully submitted,



Monica McCormick Graham, Ph.D.  
Reg. No. 42,600

Date: June 16, 2005

Fish & Richardson P.C., P.A.  
60 South Sixth Street  
Suite 3300  
Minneapolis, MN 55402  
Telephone: (612) 335-5070  
Fax: (612) 288-9696

60300526.doc

**NOTE: This facsimile is intended for the addressee only and may contain privileged or confidential information. If you have received this facsimile in error, please immediately call us collect at (612) 335-5070 to arrange for its return. Thank you.**

MSE  
RCL

P+R-2

## PATENT

ATTORNEY DOCKET NO.: 07148-063003

The Patent and Trademark Office date stamp sets forth the date of receipt of:

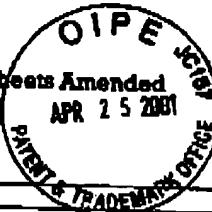
Applicant or Patentee Lorin R. DeBonte, et al.

No. (Application, Appeal, Interference, Patent, Reexam) 09/771,904

Filing or Issue Date JANUARY 29, 2001

Title FATTY ACID DESATURASES AND MUTANT SEQUENCES THEREOF

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Transmittal Letter (2 copies)                                      | <input type="checkbox"/> With Pet. for Ext.                  |
| <input type="checkbox"/> Assignment  | <input type="checkbox"/> Status Inquiry                      |
| <input type="checkbox"/> Amendment/Response _____ Pages  | <input type="checkbox"/> Declaration                         |
| <input type="checkbox"/> Maintenance Fee   | <input type="checkbox"/> Request Certificate of Correction   |
| <input type="checkbox"/> Check \$_____   | <input type="checkbox"/> Notice of Appeal                    |
| <input type="checkbox"/> Deposit Account Order Form (2 copies)   | <input type="checkbox"/> Appeal Brief (3 copies) _____ Pages |
| <input type="checkbox"/> Issue Fee <input type="checkbox"/> Request Patent Copies                      | <input type="checkbox"/> Petition for Extension of Time      |
| <input checked="" type="checkbox"/> Information Disclosure Statement (2 pgs.)                          |  |
| <input checked="" type="checkbox"/> PTO 1448 Form - 3 Pages  |  |
| <input checked="" type="checkbox"/> [REDACTED] References - Number of References 17                    |  |
| <input type="checkbox"/> Drawings _____ Sheets Formal _____ Sheets Informal _____ Sheets Amended _____ |  |
| <input type="checkbox"/> Notice of Missing Parts   |  |
| <input type="checkbox"/> Combined Declaration and Power of Attorney                                    |  |
| <input type="checkbox"/> Small Entity Statement  |  |
| <input type="checkbox"/> Other   |  |

Atty/Sec.  
Initials RCL/JM Client/  
Matter Name (Catalji)

Date 4/23/01

APR 30 2001

DMS/

Attorney's Docket No.: 07148-063003 / A15-505.35

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lorin R. DeBonte, et al. Art Unit : Unknown  
 Serial No. : 09/771,904 Examiner : Unknown  
 Filed : January 29, 2001  
 Title : FATTY ACID DESATURASES AND MUTANT SEQUENCES THEREOF

Commissioner for Patents  
 Washington, D.C. 20231

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement;
2. Form PTO-1449;
3. Copies of Cited References; and
4. A Return Postcard.

Please date stamp and return the enclosed postcard.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: April 21, 2001

Ronald C. Lundquist  
 Ronald C. Lundquist, Ph.D.  
 Reg. No. 37,875

Fish & Richardson P.C., P.A.  
 60 South Sixth Street  
 Suite 3300  
 Minneapolis, MN 55402  
 Telephone: (612) 335-5070  
 Facsimile: (612) 288-9696

60038421.doc

## CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

April 23, 2001

Date of Deposit

Jodi L. Meany  
 Signature

Jodi L. Meany

Typed or Printed Name of Person Signing Certificate

Attorney's Docket No.: 0...8-063003 / CON OF A21-535.13

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lorin R. DeBonte, et al. Art Unit : Unknown  
 Serial No. : 09/771,904 Examiner : Unknown  
 Filed : January 29, 2001  
 Title : FATTY ACID DESATURASES AND MUTANT SEQUENCES THEREOF

Commissioner for Patents  
 Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed.

Under 35 USC §120, this application relies on the earlier filing date of application serial number 08/874,109, filed on June 12, 1997, which is a continuation-in-part of PCT/US96/20090, filed December 13, 1996, which is a continuation-in-part of application serial number 08/572,027, filed December 14, 1995. The following references were submitted to and/or cited by the Office in the prior application and, therefore, are not provided in this application:

Desig. IDs:

AA	AB	AC	AD	AE	AF
AG	AH	AJ	AK	AL	AM
AN	AO	AP	AS	AW	AX
AY	AZ	ABB	ACC	ADD	AEE
AFF	AHH	AII	AJJ	AMM	AOO
APP	AQQ	ARR	ASS	AVV	AWW
AXX	AYY	AZZ	AAAA	ABBB	ADDD
AFFF	AGGG	AJJ	AKKK		

## CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

April 23, 2001

Date of Deposit

Jodi L. Meany  
SignatureJodi L. Meany

Typed or Printed Name of Person Signing Certificate

Applicant : Lorin R. DeBont, et al.  
Serial No. : 09/771,904  
Filed : January 29, 2001  
Page : 2

Attorney's Docket : 07148-063003 / CON OF A21-  
535.13

This statement is being filed within three months of the filing date of the application or before the receipt of a first Office action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: April 21, 2001

Ronald C. Lundquist  
Ronald C. Lundquist, Ph.D.  
Reg. No. 37,875

Fish & Richardson P.C., P.A.  
60 South Sixth Street  
Suite 3300  
Minneapolis, MN 55402  
Telephone: (612) 335-5070  
Facsimile: (612) 288-9696

60035937.doc